## U. S. DEPARTMENT OF AGRICULTURE BUREAU OF BIOLOGICAL SURVEY

Form Bi-689

## FIELD DIARY

Mr. E.A. Goldman

(Official title.)

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## 1931 NOTICE

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apr, 3,1931 Left Warlington, 76, 705 PM. Off 1011, 8,45 0011. Upr. 5 au rouls ep. 6. serie & Turson, erig Suntalestations, Deer about 3 years old mugher E5 ibs moderat al 69 Dear & Voft lucron about 9,00 1 11. with I'll a. I'm a was the fred Winn, D. a. Shoumaker & B. Hark Inter Recan Ranch where we arrived for dunner. In afternoon a try by auto was mode to the top & the South Catalinas in the bulinity of Folder leamp and Tummorhaven. Forge Jorden Dertructure howing of wodrons, manganita,

apr. 7 cox. Fuerous hypotenea, mountain waliogany white fir, Fambel and dogwood astern snowberry diereary on middle Hopes in brush. Some cliff roca des sour I brown . Apr. 8, From Inter Oceanor Kumon Rauch wate a long trip over the northern northern old pro of the Santa Ceatalinas working up into the lower fact of the yellow pines. about 24 white touted der were noted In several places owned horoving to deer of plants not I existended was wident on the middle Hopes, gradually dimenshing lower afr. 9. another try ochoon parts of northern slopes of Ita Catalinay

2/2.9, con. returning to ranch about 3 P.M. Pupard a brief report and Musquave and I drove to his place near though arriving shorely before undinglet. Opr. 10. Thoenex to line Hat so miles south of Walliams by auto arriving shortly before lask. Ofr. 11. Vine Flat Made howe trip over ranges south of Pine Flat, working down under the Deformers, Holes in sand found by disintegrated sandstone near Sand Flat. forage. This is yearlong range for mule dur and cattle and many shouts are hard his among there are the oak but ( Iverens turbingla according to

Musquare, Jumpens monospuma, lecanother greggi mountain walugary Tarrya wighte arelostoph purgene (smooth-leaved) cloff rose, a grayhairy-baved manganta is little Trovol France including much gramma in good condition, Sand Flat, Had lunch at a cabin at Sand Flat about 26 miles south of Welliams, This is well down in the punjon of jumper belt with cactures, abundant in a loove pandstone forwation and abundant holes of kargaros rate, Some of these in ofen ground along to trail just north of the holing and allers in the loose vail about clumps of buther. a good place for general collecting. archolaphylos, In o forein action

along some of the voges Jorage, a live Philadelphis beauty browned noted vear Sard Flat, In This gund section heavy browing of Phanum cracea noted, also some browing of yellow pine apparently by deer. afor 12 (Dem), Vine Flor to Flanslaff another ride out from Vine Flat and conditions semilar to yould y noted. Prove to Hagolaff in evening Opr. 13 (Mon), Plazolaff to Bly RS. on loconus Mat. touth, Obverved a few Tunches Trett upwally numbering eight or 10 logieties south of lehavery Paro on anderson Mesa.

apr. 13 con. aulilope Have moreand rapidly on andrown Mera in part few years and are estimated by Musque al actions to minder around 3000, Toroge brown toy audilope. Jumperus monotperua. Phus hulobala Vites augunia Celingsochamus Julienzia (Duske weed) Below By RS for a bowe difference line some solution of the line of the solution of the soluti through continuous Hay take and bleer bleek, antitofe Saw several small Simeles sumbing up to 8, Moth ocathered the \$6 probably preparing to favor. Most or putops all

Maxua, Michols reports feeling shir To me lete pellet in Sycamore lete 25 mi SE & Williams apr. 14 cm. gand dead bad apparently Som bolled very newly by predatory animal leoyote had cleaned the skeleton out stomach controls found were still moit, This was a 7. Ranger Smith and other lacal forest officers extende to sumber of descardedope in this general viction at 2500 to Thed com therets in hounder. of some reduction of authori save undue dolruchun Forage. For authors. Heavy browns of some pumpers will end oction man lift apparently untouched, Chrysothamus, Heavy

Up. 14 con. and destructurely browned, Some of it being killed in some places but not so much in olluss, Gutierregia, leonium of. is offerely considerably browned but not kelled. Pentsters, a swall spices growed. Ribes. Heavely Droward. Elk. a few along belear lever on ord red learner. lescenino Formsh afor. 15 (W. D.), Bly R.R. to Wallace R.S. Litgreams tank arig. ona Windlow. Prove to Window and in afternoon auf to Wallace R.S. Lato in afternoon winted Wellow terrik learning a few miles from

afr. 15 ton. Wallace RS. alk abundant right of och wentering in wellows along compan and a few fresh bracks tem, Elle said by fait officers to. levitag, targe for eck, along willow lok. leanyon we found eveneduable browing of willow learners (red) Populus Clack cottonwood, rose, Sop elder and rasposery. While this Growing is not so very sirons where we observed it morthergrove says it is more throwing how Last year and it is clear that the number of ilk should be cheeped apr. 16 (Thurs), Wallace 83 Sitgreave Not For. More a Trip by auto part Joke Doran Rouch out

apr. 16.com to within about 5 miles of mu where we became thuck so many times we were found to turn back and returned vea Dye Ranch. Elk. Many vegus of elk were seen and it is affaring they they are numerous and generally distributed wrotenz welldown Jumpers, but elk more munious. Farage Destructure browing of large willows noted at Daran Ranch and Wolf Ranch aloff rose brown I by elk but not distructively Wild lunting. Ewidently in good munbers. Many organs or me Four tentrops remarkables

apr. 17 (Fri) Wallace RJ. Consider they by auto! leround Willow lk. and on to Fairchild leavyon It to Furbay leabin where we stopped for hunch. Telk humerour bracks seem districted Forgs. along Willowsk. noted browing observed on fush visit along Faucheld leavyon considered Slowing of willow many of the willow clumps have been browns and have started many sprowle which are better off. Some claups of willows have dud esperally In the dayer situations or along the edges of meadows where the waln table has undoubtelly faller dome eron of medows. asfun reproduction bing howard probably by both rek and dear!

apr., 17 con near Commutary Jawer and to sin generally there is lettly widness of upture browning by ilk or den, a good very swall as from are upped probably by that. Bek. Fracks Dem at fromonly. Tower but few are now ranging in rime about half a dizenou by to fairly Wold Justing, Dyns vin w alundance in the modows near every old nauch up to within a firs much of the sime. Several turkings much by our party loday a little over 22 outenis of the Nak, Formst land,

lebysochaines - Morge is a day sheep so hot for a Ty anderse Enterouty oranged Step ranges such of we came stored today southed by minking in not moliceally browsed aposto Johns Was pour Drift vot palalable to deer Alber via Wintow & Holbrook. Hopfiel en route in jumpin Jelt near Willow lerek alledin Fraw. injumping Deer. abundant near Willow Bk, 6- leadin Frank a good war all oard to remain were in summer on moveletae at buck down Tobamarbatianis. Fred when to From strus ent of and fresh den loster bush. Mt. malogony Swell brown of probably by other near Willowick, but about fil whom by deer of a professed of theirs with the prom to afternoon

aliff Rose Stock in general do not brown it much Holorook via pourdo on Sitgraves Forest Jotelis live Browned. Many from tracks elk feeding in meadow largely on fresh grows and clover. intery. No vigno al willen Rawh. elk with in prize field where they enduced come out at night. Rye rother considerably grazed.

apr. 20 (Mon.), Holbrook & Blue P.O., via Juna, WM, Lunch with Trons aludo of St. Johns. arrived at Blue, P.O. in lowing, Saw Julius, Becker in Fpringaville and descriped dear situation with him. apr. 21 (Que), From Blue R.S. rode slopes of mountains along worten side of campon and lower olofus of hells on eastern vide. Mule deer, Karge in Adeauner high up al in which are summer range of whitelail. Whitetail den Range in Inner on middle slopes of mountain the souther expores and redges covered week a rather dive growth of ook,

afr. 21 con apr. 21 (Due,) Blue P.O. Gund area heavily brown in part by domestic stock for for calle on other stock now for from rives. Deer White tail on lower stopes. Male deer Munious in offer which to winter range. Mr. Mologany. Heavily drown cathe now bing Frauend dig Howard as high as deer ead mach.

afr. 22 (Wed.) another ride John Blue R.S. over slopes along western And & vally up to near its lop well up in Transtin give, Feneral area heavily browsed by dur, fow slock now but Johnverly many and considerable erosion has refulled. Telk, Saw oyus of a few Mule den a for rome is snow in patches offendy Judiz upon grass and other - Fineral conditions much as in area covered yesterday, Jumpeus Jack. This is the common of and the one most

heavily browned, Deer do not browne to very you jumping so much at the which are croffed as high as a der can reach. This its probably due to the more the younger fromth, Wh thatogany This is puhaps in this vietin It has den heavily drowned by Low block of now buy killed by deer. Farrya, Browsel by dur but not at extensively as mahoganys alfalfa In owall field in Bollow of valley whilelails come in at night in runders

waking well worn hards under barbed wire, many entering at the same found, Wire about 15 webs from ground, Opr. 23 Thurs.), Mound from blue R.S. to leoper Rauch. Alany rain last night out particelly cleaning today. Made tip in afternoon over Rawh. to earl & hospen Whitstail der Chra visible this ofleren is whitetail deer range open for three years. Mr leaster says a some consultable hunting how Tela done took Den eviduidy not so abulant as war Blue, expressly on lower stops.

forge ava rat of like most of fund territory has been heavile sowed in the past but call Juf is live while by deer than ava was Blue. If shows some du Scowing but this is confined wanty to higher olopu. apr. 24(Fw.). Fromlivefield a long dorp ride through som of Trule the toward alina, NM, over Alachtail dur range. Blacktail der In Tale Blue Borin blocktail are common or fairly abundant in an area where Mr mahagany and Janya and and Felinalty toploto are browned, slope are largely open and thinly could with posts of the area mar the Blue.

apr. 24, con Forage, area visited loday heavily overbrowed by carrie in the past and now bing brown by both deer and call the grown area bing a excarlong range for both eather and dear, area badly Opr. 25 (Set.) From Ecopolo Ranch rode general area on bath vilges on the word oile we struck to Goot trail when eta nin, cross & K. P. canyon on it and then robe down by trail on nouts vide. Whileail dur While not very executer abendant of prisabler were very museums In the area could told Forage area covered today is summer and winter range for

apr 25 con. whitetail deer, the line bing near the boundary beliver Transition and Uffer Sonoran zmes. Many deer sive the window range to a considerable that in summer and conditions winter range. In general area deer line can randy be seen tropolog in the range is in than when care were remood most four to five years ogo. Situation is not critical now but may become so in nearfulin. Springerville, arize

apr. 26 con. blind up along translet of lund up on what through. l'aradire a large flatourpour with yellow pive Tunchan small stream a branch of Tranklereck. learnes obstonifera. Red willow knowed by let by der. Return Paradire and turned north rimming to month finally dropping into upperend of Foots level canyon along which we returned man to Blue R & Imply many by the Fast levek trail. Whitetail der, Jawat book 14 a munber of these in yellow pines in The Paradire area and along the upper fart of toots ok Garaja Sin utilsalin of mh mohozung learners ototorifica, and other olives

apr. 26 con. But jumpin me and warganita, the latter not very abundant, not beauty browned, as in aller sections utilization of forge in this dwarfs not of present very verious, But threating to become to. Blacks. to af Springeville Jufary refait. to Majdalwa UM. trunked report and left Springerville about 2 PM with D. a, Shoemaker by auto and arrived Magdalwa UM, about 7 PM. - Roads very weterk tliftery.

apr. 29. Mazdalwa to albuquerque by aut and lift in route to Dinver aut Fift albuquer about 8,300 m and arrived albuquer about noon leontimed from albu, by train to Denver about 430 PM. Ofer. 30. Denou ledo, arivel about 10 a.M. & allers Gridator armal and Robert Central Confirme. May 1-2- af Denon. May 3 - Left Denver on Washington

arrived theory 7.45 PM; left Chi, 830 P.M. arrive Washington, 4.40 PM. Story

who we affer is it is in the mark where without Dunn 10 a.M. 10 a.m. John Gebut: Principles 1) heardling # = Chauna Jame Prixeme 5. 87 Williams 1350000 15000000 Jame Province on leatalines, 90000a, .. Blue 501 000 acres. Qa, nichols, Unv. Jarig, 22 elk liberated on leampfull Blire, 726, 1927. K.G. Kartchner, Stab Yame lem. Thomas,

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BUREAU OF BIOLOGICAL SURVEY.
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Washington, D. C.

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Boy 215 Chayen Opy D Pardolone Tal Porpon Slewent Ady before Jeces in Ears

Halli Reff. Sans plains coyota carriers of amasquet at the evidence of Jack & Anowboy of field on keldma if the byfamil williams to aceft unspowell criticism as demonstrated but,